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NOTICE OF ALLOWANCE AND FEE(S) DUE

23117

7590

03/06/200

?

NIXON & VANDERHYE, PC 1100 N GLEBE ROAD 8TH FLOOR ARLINGTON, VA 22201-4714 SCHECHTER, ANDREW M

ART UNIT CLASS-SUBCLASS

2871 349-043000

2871

DATE MAILED: 03/06/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577 007	05/24/2000	Kazuyoshi Fujioka	829-551	5218

TITLE OF INVENTION: LCD HAVING ELECTRODE(S) OUTSIDE DISPLAY AREA WHICH ADSORB IONIC IMPURITIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	06/06/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents

Washington, D.C. 20231

Fax (703)746-4000

maintenance fee notification	is.	se in block 1, by (a) sp	occurring a new co	nosponaciico udo	required). Blocks 1 through 4 sees will be mailed to the current tress; and/or (b) indicating a separate of the current tress.	
23117 75	E ADDRESS (Note: Legibly mark 90 03/06/2003	up with any corrections or use	Block 1)	Fee(s) Transmi	ate of mailing can only be used fo ittal. This certificate cannot papers. Each additional paper, s	be used for any other such as an assignment or
NIXON & VANI 1100 N GLEBE RO 8TH FLOOR ARLINGTON, VA	DAD			I hereby certify United States Po envelope addres	must have its own certificate of n Certificate of Mailing or Trans that this Fee(s) Transmittal is stal Service with sufficient postal ssed to the Box Issue Fee address the USPTO, on the date indicated b	smission being deposited with the ge for first class mail in an above, or being facsimile
						(Depositor's name
						(Signature
						(Date
APPLICATION NO.	FILING DATE	FIR	ST NAMED INVEN	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,007	05/24/2000	<u> </u>	Kazuyoshi Fujioka		829-551	5218
APPLN. TYPE nonprovisional	SMALL ENTITY NO	ISSUE FEE \$1300	PUBLI	CATION FEE	TOTAL FEE(S) DUE \$1300	DATE DUE 06/06/2003
EVAMO	urn .	ART UNIT	CLASS-SUBCL	224		•
SCHECHTER, A		2871	349-04300			
			317 01300			
1. Change of correspondent CFR 1.363). Change of correspondent Address form PTO/SB/12 "Fee Address" indicative PTO/SB/47; Rev 03-02 of Number is required.	Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
(A) NAME OF ASSIGNED	n assignee is identified be to the USPTO or is being E	low, no assignee data w submitted under separate (B) RI	vill appear on the pe cover. Completion ESIDENCE: (CITY	atent. Inclusion o n of this form is N and STATE OR	of assignee data is only appropriate NOT a substitute for filing an assign COUNTRY)	
Please check the appropriate 4a. The following fee(s) are		· · · · · · · · · · · · · · · · · · ·	yment of Fee(s):	G marvidaar	Corporation of outer private g.	oup chary — governmen
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Commissioner for Patents is	requested to apply the Issu	ue Fee and Publication F	ee (if any) or to re-	apply any previo	ously paid issue fee to the applicati	on identified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; interest as shown by the red	a registered attorney or a	gent: or the assignee of	or other party in I			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing t Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents,	by the public which is to y is governed by 35 U.S.C. less to complete, including m to the USPTO. Time v the amount of time you his burden, should be sen ice, U.S. Department of C COMPLETED FORMS	file (and by the USPT 122 and 37 CFR 1.14. gathering, preparing, ar vill vary depending upon require to complete to	O to process) and This collection is not submitting the conthe individual this form and/or			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/577,007	05/24/2000	Kazuyoshi Fujioka	829-551	5218	
23117	7590 03/06/2003		EXAMINER		
	NDERHYE, PC	SCHECHTER, ANDREW M			
1100 N GLEBE 8TH FLOOR	ROAD		ART UNIT	PAPER NUMBER	
ARLINGTON,			2871		
UNITED STAT	ES		DATE MAILED: 03/06/2003		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/577,007	05/24/2000		Kazuyoshi Fujioka	829-551	5218	
23117				EXAMINER		
NIXON & VA	7590 NDERHYE, I		SCHECHTER, ANDREW M			
1100 N GLEBE ROAD 8TH FLOOR				ART UNIT PAPER NUM		
ARLINGTON, V	VA 22201-471	4	2871			
UNITED STATES				DATE MAILED: 03/06/2003		

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Applicati n No.	Applicant(s)	
	09/577,007	FUJIOKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Andrew Schechter	2871	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1.	S IS (OR REMAINS) CLO -85) or other appropriate T RIGHTS. This applicat	SED in this application. If not inclu- communication will be mailed in due	ded e course. THIS
1. This communication is responsive to the filing of 6 Feb	oruary 2003 .		
2. The allowed claim(s) is/are <u>1-15</u> .			
3. The drawings filed on 24 May 2000 are accepted by the	e Examiner.		
4. Acknowledgment is made of a claim for foreign priority	under 35 U.S.C. § 119(a	n)-(d) or (f).	
a) ☑ All b) ☐ Some* c) ☐ None of the:			
1. Certified copies of the priority documents h			
2. Certified copies of the priority documents h	·	<u></u>	
3. Copies of the certified copies of the priority		eceived in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priori	-		
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic priori	ty under 35 0.5.C. 99 12	o and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT			
7. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which gives in the substitute of t			NOTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) ☐ including changes required by the Notice of Drafts	sperson's Patent Drawing	Review (PTO-948) attached	•
1) hereto or 2) to Paper No	,	(
(b) ☐ including changes required by the proposed drawi	ing correction filed	which has been approved by the	Examiner.
(c) ☐ including changes required by the attached Exam		- · · · · · · · · · · · · · · · · · · ·	
Identifying indicia such as the application number (see 37 CI of each sheet. The drawings should be filed as a separate page 1.00 of each sheet.	FR 1.84(c)) should be writte aper with a transmittal lette	en on the drawings in the top margin er addressed to the Official Draftsper	(not the back) son.
9. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMENT FO			Note the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)	2∏ N	otice of Informal Patent Application	(PTO-152)
3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948	3) 4⊠ In	iterview Summary (PTO-413), Pape	•
5 Information Disclosure Statements (PTO-1449), Paper No.	·	xaminer's Amendment/Comment	
7☐ Examiner's Comment Regarding Requirement for Deposi	t 8⊠E	xaminer's Statement of Reasons for	r Allowance

U.S. Patent and Trademark Office PTO-37 (Rev. 04-01)

of Biological Material

9☐ Other

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-15 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the applicant has amended to add the limitation that "the continuous electrode pattern for adsorbing an ionic impurity is provided on only one of the substrates and is at least partially coplanar with the pixel electrodes". Neither *Kikuchi* nor *Tanaka* discloses a continuous electrode pattern surrounding the display pixel area on all sides on only one of the substrate. *Kikuchi* shows the pattern on both substrates along only one edge, while *Tanaka* shows a discontinuous pattern which is on the lower substrate on the right and left sides, while on the upper substrate on the top and bottom sides. Claim 1 is therefore allowable, as are claims 2-7, 11, and 14 which depend on it.

Similarly, the applicant has amended claim 10 to add the limitation that the electrode pattern is "on only one of the substrates, said pattern being coplanar with the pixel electrodes". Since the claim recites the electrode pattern being on only one of the substrates, and both *Kikuchi* and *Tanaka* disclose having it on both substrates, claim 10 is also allowable.

Claims 9, 12, and 13 recite the electrode pattern for adsorbing an ionic impurity being only along 2 or 3 particular sides of the display, which is not disclosed by the prior art (*Tanaka* discloses the electrode pattern on all four sides, *Kikuchi* discloses it only on

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Art Unit: 2871

one side, that recited by the present claim 10). Claims 9, 12, and 13 are therefore allowed.

Claim 8 recites an electrode pattern for adsorbing an ionic impurity provided over the insulating film divided into a plurality of segments all on the same substrate, which is not disclosed by the prior art, so it is allowed.

Claim 15 recites an electrode pattern for adsorbing an ionic impurity provided over the insulating film so as to surround the display pixel area on all sides thereof, which is not disclosed by the prior art, so it is allowed. As noted in the Interview Summary (Paper No. 16), the claim requires that the electrode pattern surrounding the display pixel area be on a single substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Schechter whose telephone number is (703) 306-5801. The examiner can normally be reached on Monday - Friday, 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (703) 305-3492. The fax phone numbers

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Art Unit: 2871

Page 4

for the organization where this application or proceeding is assigned are (703) 746-4711 for regular communications and (703) 746-4711 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Andrew Schechter February 27, 2003

POBENT H. KIM SUPTITION AND PATROTT FRAMINER TECHNOLOGY GENTER 2800